

ABSTRACT

There is provided a mutant nucleoside-5'-phosphate
producing enzyme with improved nucleoside-5'-phosphate
5 producing ability of a nucleoside-5'-phosphate producing
enzyme that has transphosphorylation activity and/or
phosphatase activity and has one Lys residue, two Arg
residues and two His residues with distances between
their C α 's within a particular ranges and a space around
10 them allowing a binding of a nucleoside, of which
mutation is designed by using the crystal structure of
EB-AP.